

ABSTRACT

The invention relates to an assay for testing oxidative stress of a subject by measurement of oxidants in biological fluids such as urine, plasma, bioreactor medium and respiratory aspirants. There is provided a method of determining oxidative stress in a mammalian subject. The method comprises: obtaining a sample of a biological fluid from the subject; mixing the biological fluid with a ferrous reaction reagent; incubating the biological fluid and the reaction reagent; and detecting a coloured reaction product.

There is further provided a ferrous reaction reagent suitable for use in assaying oxidative stress, said reaction reagent comprising 2-deoxyglucose, TBA, EDTA, and ferrous sulfate, and being substantially free of ascorbic acid.